Conversion Instructions

Content

1 Applicable Range....1
2 Parts Included....1
3 Tools/Test Equipment....1
3.1 Tools: 1
3.2 Test Equipment: 2
4 Conversion Instructions 2
4.1 General: 2
4.2 Conversion: 2
4.3 Assembly:....2
4.4 Final Test: 3
5 Graph 4

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1 Applicable Range

This conversion kit contains equipment for converting the breathing system interface of the Julian 8601125 to reduce the risk of leaks.

2 Parts Included

The conversion kit "AF00518, ST" includes the following:

1 Conversion Instructions AF00521
5 Socket(s) M33865 with seal(s) M33899 and M33747
1 Sheet metal AF00516
1 Plastic sheet 8601812, screw(s) 1311514, Omnivisc 1050 or Elastosil E41

3 Tools/Test Equipment

3.1 Tools:

Basic tool kit, including:

7901060 Allan key 2.5 mm
7900674 Allan key 3.0 mm
7910253 Phillips-head screwdriver B1x80
7910254 Phillips-head screwdriver B2x100
7910231 Wrench/spanner 12x13 mm
7910315 Wrench/spanner 14x15 mm
7910317 Wrench/spanner 18x19 mm
7900905 Socket wrench 1/4"

1202537 Wacker Elastosil E41
(7901488 Screwdriver 0.5x3x150)
(7910220 Pliers A10 DIN5254 (ribbed))
(7910298 Tweezers)

3.2 Test Equipment:

Basic tool kit

4 Conversion Instructions

4.1 General:

Detach the back panel from the Julian workstation and disconnect the central supply hoses. Remove the breathing system. Loosen the screw(s) securing it and remove the pneumatics module from its housing. Disconnect the cables to the PCB Actuator and the hoses to the vaporizer connector on the ejector and the EDOS block (remember to disconnect the suction hose).

Remove the pneumatics module from the guide rails (by loosening the two screws at the top, back), place it on a nearby work surface (note: the flow cable may remain connected but it has a limited length).

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4.2 Conversion:

The heating unit may remain attached. It can, however, be easily removed for better accessibility. While removing the heating unit, pay special attention to the four springs below the heating plate (these should not be lost).

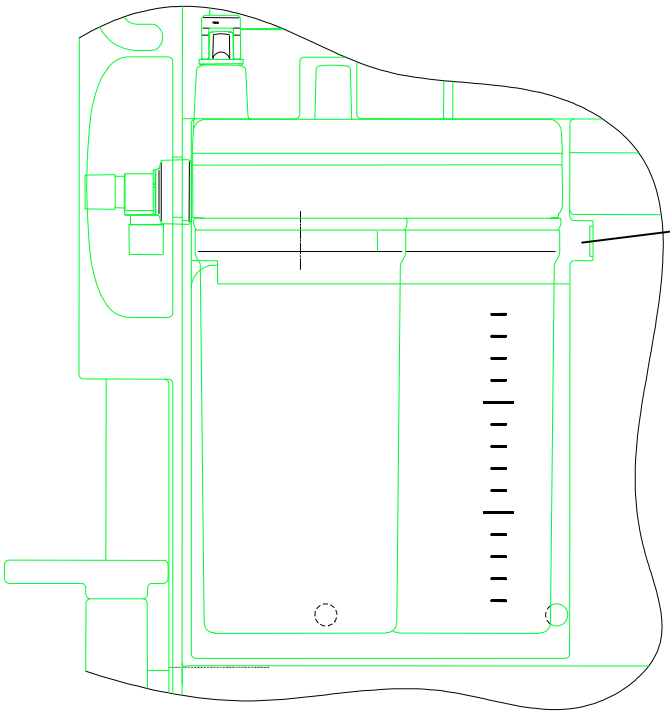
Remove the four hoses and the copper coil.
Detach the two nuts (5.5) on the pneumatics interface using the socket wrench. Remove the sheet metal holding the sockets and remove the sockets from the interface. Remove the pneumatics connector from the old sockets (13) and attach them to the new ones.
The biggest one M33752 have to be fixed with 1202537 Wacker Elastosil E41 additional.

Insert the sheet metal –taken from the conversion kit– between the 3 sockets on the left side and the inter-face-block (see photo). Assemble the 5 sockets and the sheet metal to fix the socktes in the inter-face-block.

Connect all hoses to the pneumatics connectors.

If the heating unit has been removed, remount this now (four springs and two circlips).

Secure the plastic sheet –taken from the conversion kit– to the front panel of the Julian workstation, i.e. in the groove of the patient system drawer on the right-hand side, using the screw and silicon, 3 mm from the front edge of the housing. The plastic sheet reduces tolerance between the housing and the patient system (see photo).



8601812 fixed with 1202537 Elastosil E41 and screw 1311514 3mm from the front edge of the housing

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4.3 Assembly:

Insert the pneumatics module into the housing. Connect cables and hoses making sure that they are not kinked or squashed.

Insert breathing system, replace sample gas return hose and water trap container.

Perform self test: leak must be lower than 85 mL/min.

Replace back panel.

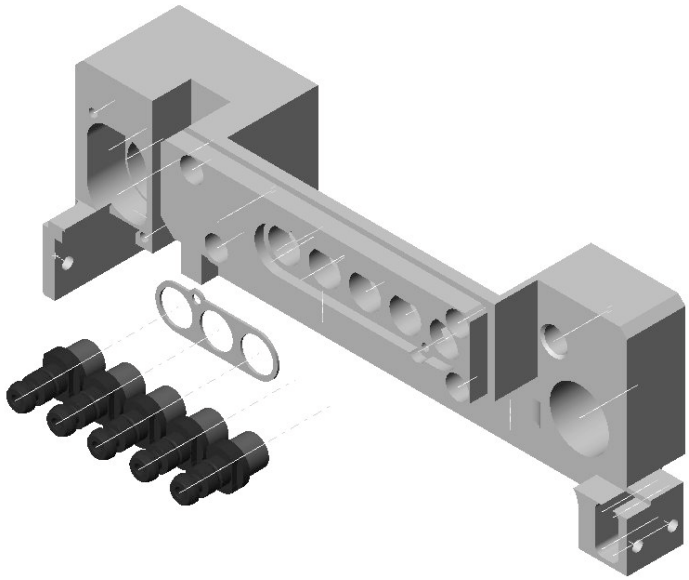
4.4 Final Test:

After modifications have been made, perform all safety checks as required in the Julian Test Certificate, item 22.

Check CMV function as per item.23.2.4.

Breath into the probe: a reliable CO_2 value and a CO_2 curve should be displayed.

5 Graph



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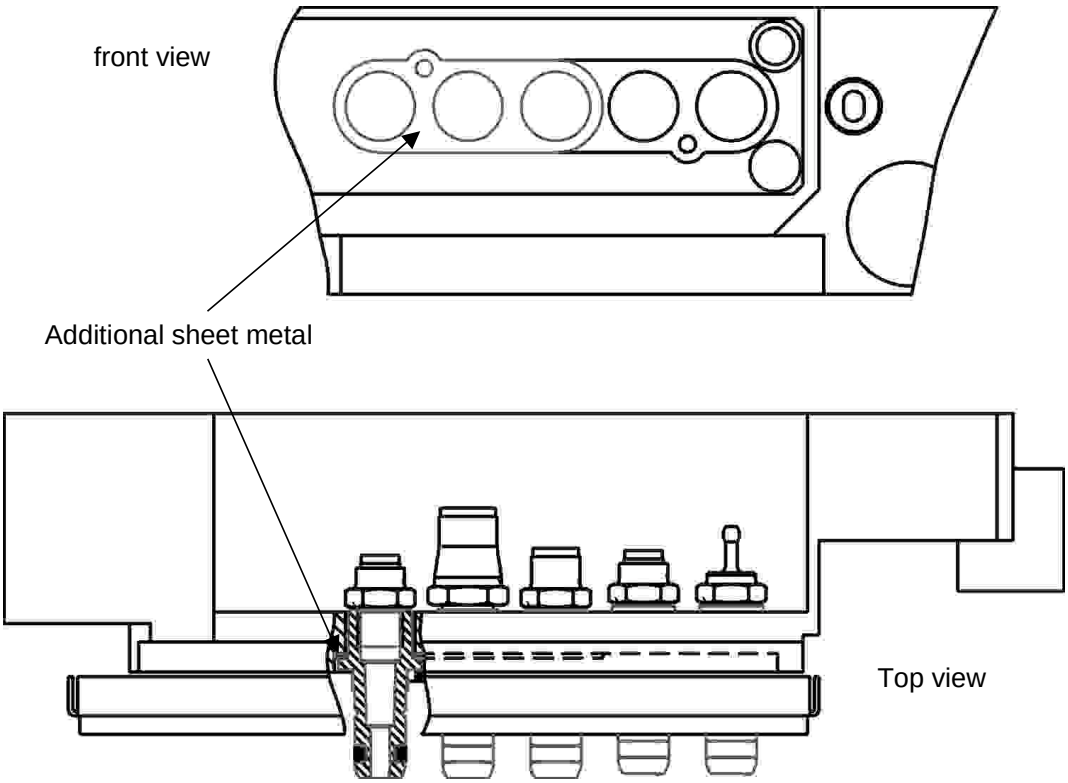
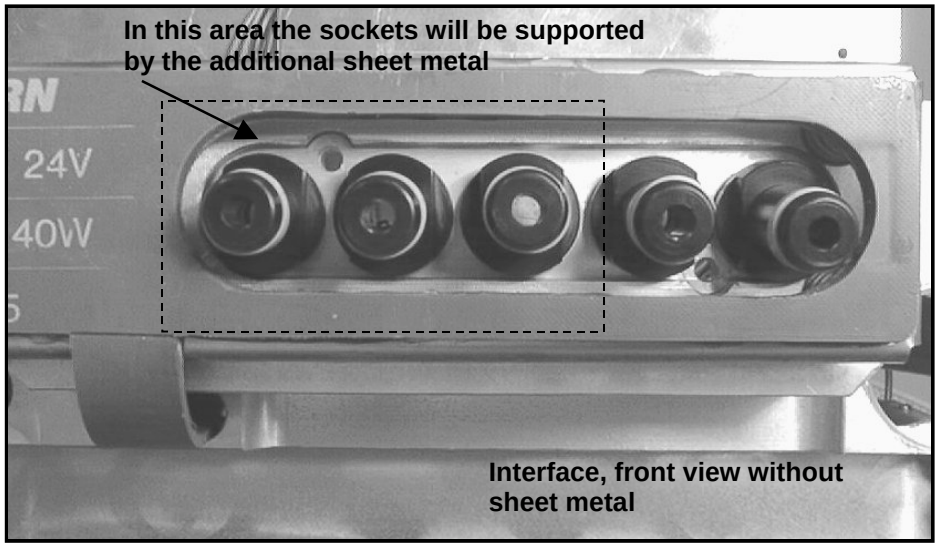
Interface




In this area the sockets will be supported by the additional sheet metal
24V
40W
Interface, front view without sheet metal

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